Exhibit 300: Capital Asset Plan and Business Case Summary

Part I: Summary Information And Justification (All Capital Assets)

Section A: Overview

1. Date of Submission: 2011-02-22

2. Agency: 007

3. Bureau: 17

4. Name of this Investment: JTRS - HANDHELD, MANPACK, AND SMALL FORM FIT RADIOS

5. Unique Project (Investment) Identifier (UPI): 007-17-05-12-01-0342-00

6. What kind of investment will this be in FY 2012?: Full Acquisition

- Planning
- Full Acquisition
- Operations and Maintenance
- Mixed Life Cycle
- Multi-Agency Collaboration

7. What was the first budget year this investment was submitted to OMB? FY2004

8.

a. **Provide a brief summary of the investment and justification, including a brief description of how this closes in part or in whole an identified agency performance gap, specific accomplishments expected by the budget year and the related benefit to the mission, and the primary beneficiary(ies) of the investment.**

The Joint Tactical Radio System (JTRS) is the Department of Defense (DoD) family of common software-defined programmable radios that form the foundation of a seamless information network supporting Joint Vision 2020 objectives. JTRS, a key enabler of tactical military communications, will provide critical transformational communications capabilities across the spectrum of operations in a Joint environment. The JTRS Handheld, Manpack, and Small Form Fit (HMS) program complies with the information technology standards contained in the DoD IT Standards Registry (DISR). Those standards embrace commercial open architectures and modular designs to deliver multiple communications means and network functions from a single platform. JTRS HMS provides military commanders with the flexibility to command, control and communicate with their forces via voice, video, and data media forms, during all aspects of military operations. JTRS HMS will operate in existing manned and/or unmanned/unattended vehicles, ships, and aircraft, as well as embedded into planned future systems in conformance with applicable requirements and across Service boundaries. JTRS HMS radios will be compliant with the JTRS Software Communications Architecture. JTRS HMS will provide graduated levels of capabilities to fit the users' needs. The Handheld and Manpack radios are designed for rapid mounting and dismounting from vehicle configuration to meet changing mission demands. The Small Form Fit (SFF) radios will be embedded within Multi-Service platforms. Increment 1 of the JTRS HMS program consists of the following form factors: AN/PRC-154 Rifleman Radio, AN/PRC-155 Manpack and SFF embedded sets in both 1 and 2 channel configurations. JTRS HMS planned accomplishments for FY12 include completion of Increment and Phase 2 development. Key events planned for the 2 Channel Manpack for FY12 are Increment 1, Phase 2 Field Experiment (FE) Part 2; Increment 1, Phase 2 Government Development Test (GDT) Part 2; Increment 1, Phase 2 Multi-service Operational Test and Evaluation (MOTE); and Increment 1, Phase 2 Full Rate Production (FRP) In-Process Review. JTRS HMS closes the gap in the capability for high-capacity, secure battlefield links between all elements of the force. It is designed to provide secure communication links into the network for small, power-disadvantaged platforms and the Soldier.

b. **Provide any links to relevant websites that would be useful to gain additional information on the**

investment including links to GAO and IG reports.

Title	Link
NONE	

9.

a. **Provide the date of the Agency's Executive/Investment Committee approval of this investment.** 2004-04-26

b. **Provide the date of the most recent or planned approved project charter.** 2008-01-16

10. Contact information?

a. **Program/Project Manager Name:** *
Phone Number: *
Email: *

b. **Business Function Owner Name (i.e. Executive Agent or Investment Owner):** Kevin Tate, OASD (NII)
Phone Number: *
Email: *

11. What project management qualifications does the Project Manager have? (choose only one per FAC-P/PM or DAWIA): Project manager has been validated according to FAC-P/PM or DAWIA criteria as qualified for this investment.

- Project manager has been validated according to FAC-P/PM or DAWIA criteria as qualified for this investment.
- Project manager qualifications according to FAC-P/PM or DAWIA criteria is under review for this investment.
- Project manager assigned to investment, but does not meet requirements according to FAC-P/PM or DAWIA criteria.
- Project manager assigned but qualification status review has not yet started.
- No project manager has yet been assigned to this investment.

Section B: Summary of Funding (Budget Authority for Capital Assets)

1.

Table I.B.1: Summary of Funding
(In millions of dollars)
(Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions)

	PY-1 and earlier	PY 2010	CY 2011 (CY Continuing Resolution)	BY 2012	BY+1 2013	BY+2 2014	BY+3 2015	BY+4 and beyond	Total
Planning:	*	*	*	*	*	*	*	*	*
Acquisition:	*	*	*	*	*	*	*	*	*
Planning & Acquisition Government FTE Costs	*	*	*	*	*	*	*	*	*
Subtotal Planning & Acquisition(DME):	*	*	*	*	*	*	*	*	*
Operations & Maintenance:	*	*	*	*	*	*	*	*	*
Disposition Costs (optional):	*	*	*	*	*	*	*	*	*
Operations, Maintenance, Disposition Government FTE Costs	*	*	*	*	*	*	*	*	*
Subtotal O&M and Disposition Costs (SS):	*	*	*	*	*	*	*	*	*
TOTAL FTE Costs	*	*	*	*	*	*	*	*	*
TOTAL (not including FTE costs):	*	*	*	*	*	*	*	*	*
TOTAL (including FTE costs):	*	*	*	*	*	*	*	*	*
Number of FTE represented by	*	*	*	*	*	*	*	*	*

Table I.B.1: Summary of Funding
(In millions of dollars)
(Estimates for BY+1 and beyond are for planning purposes only and do not represent budget decisions)

	PY-1 and earlier	PY 2010	CY 2011 (CY Continuing Resolution)	BY 2012	BY+1 2013	BY+2 2014	BY+3 2015	BY+4 and beyond	Total
Costs:									

2. Insert the number of years covered in the column "PY-1 and earlier": 6

3. Insert the number of years covered in the column "BY+4 and beyond": *

4. If the summary of funding has changed from the FY 2011 President's Budget request, briefly explain those changes:
*

Section C: Acquisition/Contract Strategy (All Capital Assets)

1.

Table I.C.1 Contracts Table

Contract Status	Contracting Agency ID	Procurement Instrument Identifier (PIID)	Indefinite Delivery Vehicle (IDV) Reference ID	Solicitation ID	Alternative financing	EVM Required	Ultimate Contract Value (M)	Type of Contract/Task Order (Pricing)	Is the contract a Performance Based Service Acquisition (PBSA)?	Effective date	Actual or expected End Date of Contract/Task Order	Extent Competed	Short description of acquisition
Awarded		W15P7T04CE405			*	*	$614,535,340.0	Cost Plus Award Fee	N	2004-07-16	2011-01-13	Y	200410!005969!2100!W15P7T!USA Communications-Electronics !W15P7T04CE405 !A!N! !N! ! !20040716!20111230!046863929!046863929!001381284!N!GENERAL DYNAMICS DECISION SYST!8201 E MCDOWELL ROAD !SCOTTSDALE !AZ!85257!65000!013!04!Scottsdale !Maricopa !Arizona !+000010000000!N!N!000000000000!AC63!RDTE/El

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ectronics&Co

2. If earned value is not required or will not be a contract requirement for any of the contracts or task orders above, explain why:
*

3.

a. **Has an Acquisition Plan been developed? If yes, please answer the questions that follow** *
b. **Does the Acquisition Plan reflect the requirements of FAR Subpart 7.1** *
c. **Was the Acquisition Plan approved in accordance with agency requirements** *
d. **If "yes," enter the date of approval?** *
e. **Is the acquisition plan consistent with your agency Strategic Sustainability Performance Plan?** *
f. **Does the acquisition plan meet the requirements of EOs 13423 and 13514?** *
g. **If an Acquisition Plan has not been developed, provide a brief explanation.**
*

Part II: IT Capital Investments

Section A: General

1.

a. **Confirm that the IT Program/Project manager has the following competencies: configuration management, data management, information management, information resources strategy and planning, information systems/network security, IT architecture, IT performance assessment, infrastructure design, systems integration, systems life cycle, technology awareness, and capital planning and investment control.** yes

b. **If not, confirm that the PM has a development plan to achieve competencies either by direct experience or education.**

2. Describe the progress of evaluating cloud computing alternatives for service delivery to support this investment. HMS is a National Security System, and cloud computing is not applicable. As a tactical radio system, HMS is not evaluating cloud computing alternatives since it does not provide the types of service delivery that lend themselves to this concept. .

3. Provide the date of the most recent or planned Quality Assurance Plan 2008-02-29

4.

a. **Provide the UPI of all other investments that have a significant dependency on the successful implementation of this investment.**

b. **If this investment is significantly dependent on the successful implementation of another investment(s), please provide the UPI(s).** 007-17-05-12-01-6587-00

5. An Alternatives Analysis must be conducted for all Major Investments with Planning and Acquisition (DME) activities and evaluate the costs and benefits of at least three alternatives and the status quo. The details of the analysis must be available to OMB upon request. Provide the date of the most recent or planned alternatives analysis for this investment. 2002-01-30

6. Risks must be actively managed throughout the lifecycle of the investment. The Risk Management Plan and risk register must be available to OMB upon request. Provide the date that the risk register was last updated. 2010-12-01

Section B: Cost and Schedule Performance

Table II.B.1. Comparison of Actual Work Completed and Actual Costs to Current Approved Baseline:

Description of Activity	DME or SS	Agency EA Transition Plan Milestone Identifier	Planned Cost ($M)	Actual Cost ($M)	Planned Start Date	Actual Start Date	Planned Completion Date	Actual Completion Date	Planned Percent Complete	Actual Percent Complete
Program Initiation (Milestone B) through HMS Spiral 1 development. This is a System Development and Demonstration (SDD) activity that takes place from 2004 through 2006.		*	$26.6	$25.8	2004-04-26	2004-04-26	2005-09-29	2005-09-29	100.00%	100.00%
System Development and Demonstration- HMS post-Spiral 1 development to initial decision (Milestone C). The contracting activity development completion planned in FY11. The final Integrated Operational Test and Evaluation will occur in FY12.	DME	*	$797.5	$788.8	2004-07-16	2005-09-30	2011-02-23		97.00%	99.00%
Low Rate Initial Production (LRIP)- LRIP will begin in FY11 and continue through FY14. HMS radios are divided into 2	DME	*	*	*	2011-07-29	*	2014-12-30	*	*	*

Table II.B.1. Comparison of Actual Work Completed and Actual Costs to Current Approved Baseline:

Description of Activity	DME or SS	Agency EA Transition Plan Milestone Identifier	Planned Cost ($M)	Actual Cost ($M)	Planned Start Date	Actual Start Date	Planned Completion Date	Actual Completion Date	Planned Percent Complete	Actual Percent Complete
phases with two 1-year LRIP options per phase. Phase 1 LRIP will produce 13,819 radios and Phase 2 LRIP will produce 7,032 radios.										
Full Rate Production (FRP)- FRP will begin in FY13 and continue through FY28. Total quantities for all Services in these years are expected to total 119,195 radios for Phase 1 and 96,196 radios for Phase 2.	DME	*	*	*	2013-07-31	*	2028-09-30	*	*	*
Operations and Support (O&S) during the production phase of the program to support those radios that have been in the field.	SS	*	*	*	2011-12-15	*	2025-09-30	*	*	*
Operations and Support (O&S) post-procurement (occurs after the production of the required systems is complete). The estimated system life is 20 years,	SS	*	*	*	2025-10-01	*	2045-09-30	*	*	*

Table II.B.1. Comparison of Actual Work Completed and Actual Costs to Current Approved Baseline:

Description of Activity	DME or SS	Agency EA Transition Plan Milestone Identifier	Planned Cost ($M)	Actual Cost ($M)	Planned Start Date	Actual Start Date	Planned Completion Date	Actual Completion Date	Planned Percent Complete	Actual Percent Complete
which requires on-going O&S funding to sustain the fielded systems.										

2. If the investment cost, schedule, or performance variances are not within 10 percent of the current baseline, provide a complete analysis of the reasons for the variances, the corrective actions to be taken, and the most likely estimate at completion. N/A

3. For mixed lifecycle or operations and maintenance investments an Operational Analysis must be performed annually. Operational analysis may identify the need to redesign or modify an asset by identifying previously undetected faults in design, construction, or installation/integration, highlighting whether actual operation and maintenance costs vary significantly from budgeted costs, or documenting that the asset is failing to meet program requirements. The details of the analysis must be available to OMB upon request. Insert the date of the most recent or planned operational analysis.

4. Did the Operational analysis cover all 4 areas of analysis: Customer Results, Strategic and Business Results, Financial Performance, and Innovation?

Section C: Financial Management Systems

Table II.C.1: Financial Management Systems

System(s) Name	System acronym	Type of Financial System	BY Funding
*	*	*	*

Section D: Multi-Agency Collaboration Oversight (For Multi-Agency Collaborations only)

Table II.D.1. Customer Table:

Customer Agency	Joint exhibit approval date
NONE	

Table II.D.2. Shared Service Providers

Shared Service Provider (Agency)	Shared Service Asset Title	Shared Service Provider Exhibit 53 UPI (BY 2011)
*	*	*

Table II.D.3. For IT Investments, Partner Funding Strategies ($millions):

Partner Agency	Partner exhibit 53 UPI (BY 2012)	CY Monetary Contribution	CY "In-Kind" Contribution	CY Fee-for-Service	BY Monetary Contribution	BY "In-Kind" Contribution	BY Fee-for-Service
NONE							

Table II.D.4. Legacy Systems Being Replaced

Name of the Legacy Investment of Systems	Current UPI	Date of the System Retirement
*	*	*

Section E: Performance Information

Table I.E.1a. Performance Metric Attributes

Measurement Area (For IT Assets)	Measurement Grouping (For IT Assets)	Measurement Indicator	Reporting Frequency	Unit of Measure	Performance Measure Direction	Baseline	Year Baseline Established for this measure (Origination Date)
Mission and Business Results	Tactical Defense	1 and 2 channel HMS radios operating in a 100 node Soldier Radio Waveform (SRW) network	annual	Nodes	Increase	40 nodes	2010-01-01

Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
2011	1 and 2 channel HMS radios operating in a 100 node Soldier Radio Waveform (SRW) network	To be demonstrated at the Increment 1, Phase 1 RR Initial Operational Test and Evaluation (IOTE) in 2QFY12 and the Increment 1, Phase 2 MP Limited User Test (LUT) in FY11	Not Due	2011-02-11

Measurement Area (For IT Assets)	Measurement Grouping (For IT Assets)	Measurement Indicator	Reporting Frequency	Unit of Measure	Performance Measure Direction	Baseline	Year Baseline Established for this measure (Origination Date)
Mission and Business Results	Tactical Defense	1 and 2 channel HMS radios operating in a 100 node Soldier Radio Waveform (SRW) network	annual	Node	Increase	100 nodes	2010-01-01

Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
2012	1 and 2 channel HMS radios operating in a 100 node Soldier Radio Waveform (SRW) network	To be demonstrated at the Increment 1, Phase 2 MP MOTE in 2QFY12	Not Due	2011-02-11

Measurement Area (For IT Assets)	Measurement Grouping (For IT Assets)	Measurement Indicator	Reporting Frequency	Unit of Measure	Performance Measure Direction	Baseline	Year Baseline Established for this measure (Origination Date)
Mission and Business Results	Tactical Defense	2 channel HMS radios operating in a Mobile User Objective System (MUOS) network	annual	Observation	Increase	N/A	2010-01-01

Fiscal Year	Target	Actual Results	Target	Last Updated

						“Met” or “Not Met”	
			2013	2 channel HMS radios operating in a 100 node Soldier Radio Waveform (SRW) network	To be demonstrated at the Increment 1, Phase 2 MUOS End-to-End test event	Not Due	2010-09-20
Technology	Reliability	Data and voice communicated point-to-point using SRW & SATCOM on a 2-channel radio.	annual	Time	Increase	Data and voice communicated point-to-point using SRW & SATCOM on a 2-channel radio.	2010-01-01
			Fiscal Year	Target	Actual Results	Target “Met” or “Not Met”	Last Updated
			2010	Provide data and voice communications using different waveforms on each channel of a 2-channel radio.	Demonstrated at CDT that occurred in the beginning of Oct 2010.	Met	2011-02-11
Customer Results	Customer Satisfaction	Demonstrate communications over multiple waveforms over multiple channels	annual	Distance	Increase	5 kilometers	2010-01-01
			Fiscal Year	Target	Actual Results	Target “Met” or “Not Met”	Last Updated
			2010	1 and 2 channel HMS radios operating routing and retransmission of the following waveforms: SRW and Single Channel Ground to Air Radio System (SINCGARS)	Demonstrated at Field Experimentation (FE) that occurred in the beginning of Oct 2010.	Met	2011-02-11
Mission and Business Results	Tactical Defense	Extend radio communication beyond current capability using Soldier Radio Waveform (SRW) network	annual	Distnace	Increase	30 kilometers	2010-01-01
			Fiscal Year	Target	Actual Results	Target “Met” or “Not Met”	Last Updated

			2010	1 channel HMS radios operating in a Soldier Radio Waveform (SRW) network	Demonstrated 30 Kilometers network extension at July 2010 Exercise	Met	2010-09-20
Technology	Reliability	Operational availability of 96%, 2400 hours Mean Time Between Failure	annual	Time	Increase	Operational availability of 96%, 2400 hours Mean Time Between Failure	2010-01-01

Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
2011	Establish design that will allow operational availability of 99% and 2400 hours Mean Time Between Failure per channel for 1 and 2 channel radio	To be demonstrated at the Increment 1, Phase 1 RR IOTE in 2QFY12 and the Increment 1, Phase 2 MP LUT in FY11	Not Due	2011-02-11

Technology	Reliability	Operational availability of 96%, 2400 hours Mean Time Between Failure	annual	Time	Increase	Operational availability of 96%, 2400 hours Mean Time Between Failure	2010-01-01

Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
2012	Establish design that will allow operational availability of 96% and 2400 hours Mean Time Between Failure per channel for 1 and 2 channel radio	To be demonstrated at the Increment 1, Phase 2 MP MOTE in 2QFY12	Not Due	2011-02-11

Technology	Reliability	Operational availability of 96%, 2400 hours Mean Time Between Failure	annual	Time	Increase	Operational availability of 96%, 2400 hours Mean Time Between Failure	2010-01-01

Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
2013	Establish design that will allow operational availability of 96% and 2400 hours Mean Time	To be demonstrated at the Increment 1, Phase 2 MUOS End-to-End test event	Not Due	2010-09-20

				Between Failure per channel for 2 channel radio			
Processes and Activities	Efficiency	Position Location Information (PLI) within 20 meters of user's location	annual	Distance	Increase	20 meters	2010-01-01

Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
2010	1 and 2 channel, mission specific, software defined radios supporting routing and transmission of voice, video and data	Demonstrated at Field Experimentation (FE) that occurred in the beginning of Oct 2010.	Met	2011-02-11

Processes and Activities	Efficiency	Position Location Information (PLI) within 20 meters of user's location	annual	Distance	Increase	100 meters	2010-01-01

Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
2011	1 and 2 channel, mission specific, software defined radios transmitting Position Location Information (PLI) data accurate within 20 m of user's location.	To be demonstrated at the Increment 1, Phase 1 RR Initial Operational Test and Evaluation (IOTE) in 2QFY12 and the Increment 1, Phase 2 MP Limited User Test (LUT) in FY11	Not Due	2011-02-11

Processes and Activities	Efficiency	Position Location Information (PLI) within 20 meters of user's location	annual	Distance	Increase	20 meters	2010-01-01

Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
2012	1-2 channel, mission specific, software defined radios supporting routing and transmission of voice,	To be demonstrated at the Increment 1, Phase 2 MP MOTE in 2QFY12	Not Due	2011-02-11

				video and data			
Processes and Activities	Efficiency	Position Location Information (PLI) within 20 meters of user's location	annual	Distance	Increase	20 meters	2010-01-01

Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
2013	2 channel, mission specific, software defined radios supporting routing and transmission of voice, video and data	To be demonstrated at the Increment 1, Phase 2 MUOS End-to-End test event	Not Due	2010-09-20

Customer Results	Customer Satisfaction	Provide Beyond Line of Sight networking	annual	Distance	Increase	LOS	2010-01-01

Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
2013	2 channel HMS radios operating routing and retransmission of the following waveforms: SRW and MUOS	To be demonstrated at the Increment 1, Phase 2 MUOS End-to-End test event	Not Due	2010-09-20

Customer Results	Customer Satisfaction	Provide communications over 5 km dispersion	annual	Distance	Increase	2 km for 1 Channel and 10 km for 2 Channel	2010-01-01

Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
2011	1 & 2 channel HMS radios the following waveforms:Soldier Radio Waveform(SRW),Single Channel Ground & Airborne Radio System(SINCGARS) and Ultra High Frequency(UHF) Satellite Communications(SATCOM) at a range of 2Kkm for 1 Channel & 10 km for 2 Channel	To be demonstrated at the the Increment 1, Phase 1 RR Initial Operational Test and Evaluation (IOTE) in 2QFY12 and Increment 1, Phase 2 MP Limited User Test (LUT) in FY11	Not Due	2011-02-11

Customer Results	Customer Satisfaction	Provide communications over 5 km dispersion	annual	Distance	Increase	5 kilometers	2010-01-01

Fiscal Year	Target	Actual Results	Target "Met" or "Not Met"	Last Updated
2012	1 and 2 channel HMS radios operating routing and retransmission of the following waveforms: SRW, SINCGARS, UHF and SATCOM	To be demonstrated at the Increment 1, Phase 2 MP MOTE in 3QFY12	Not Due	2010-09-20

* - Indicates data is redacted.